

REVISION OF THE RECENT LAMELLIBRANCHIATA  
OF NEW ZEALAND.

BY CAPTAIN F. W. HUTTON, F.G.S., &c.

Family. TEREDIDÆ.\*

TEREDO ANTARCTICA. Hutton, Cat. Marine Moll. of New Zealand,  
p. 59 (1873).

*Habitat*.—Throughout New Zealand.

I find that the calcareous tube is sometimes fairly well developed.

Family. PHOLADIDÆ.

BARNEA SIMILIS. Gray in Dieffenbach's New Zealand. Vol. II.,  
p. 254 (1843); Reeve, Conch. Icon. Pholas., fig. 10 (1872).  
*P. antipodum* Philippi, Zeitschrift, f. ; Malakozoologie  
(1847), p. 71.

*Habitat*.—North Island, and as far south as Waikouaiti in  
Otago.

PHOLADIDEA TRIDENS. Gray in Dieffenbach's New Zealand.  
Vol. II., p. 254 (1843); Voy. Erebus and Terror, Moll.,  
pl. 2, fig. 8 [not of Reeve.] *P. spatulata*, Reeve, Pro. Zool.  
Soc., 1849, p. 162, and Conch. Icon. Pholas., fig. 45.

*Habitat*.—North Island, and as far south as Waikouaiti, in  
Otago.

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\* Species omitted as not inhabiting New Zealand :—  
*Aspergillum novæ Zealandiæ*, Lamarck.

## Family. GLYCIMERIDÆ.

SAXICAVA AUSTRALIS. Lamarek, Anim. s. Vert, 2nd edition. Vol. V., p. 153 (1840); Reeve, Conch. Icon., fig. 8. *Hiatella minuta*, Gray in Dieffenbach's New Zealand. Vol. II., p. 252 (1843). -

*Habitat*.—Throughout New Zealand in the roots of Kelp. Found also in Australia and Tasmania.

PANOPÆA NEOZELANICA. Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 547, pl. 83, fig. 7-9 (1835); Reeve, Conch. Icon., fig. 9; *P. Solandri*, Gray in Dieffenbach's New Zealand, Vol. III., p. 255 (1843); Reeve Conch. Icon., fig. 6.

*Habitat*.—Common in the north, rare in the south; Chatham Islands.

## Family. CORBULIDÆ.\*

CORBULA ERYTHRODON. Lamarek, Anim. s. Vert. 2nd edition, Vol. VI., p. 138 (1840); Reeve, Conch. Icon., fig. 4; *C. macilenta*, Hutton Cab. Tertiary Moll. of New Zealand, p. 18 (1873).

*Habitat*.—North Island.

Found also in Japan.

The shell is distinguished by having both valves longitudinally grooved.

CORBULA NEOZELANICA. Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 511, pl. 85, fig. 12-14 (1835); *C. catlowce*, Reeve, Conch. Icon., fig. 21.

*Habitat*.—North Island.

Found also in Australia.

Both valves are finely longitudinally striated

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\* The following species is omitted:—

*Corbula adusta*. Hinds from W. Africa.

CORBULA HAASTIANA. Hutton, Jour. de Conch., 1871, p. 84.

*Habitat*.—Lyttelton Harbour.

Rounder in shape than the other species; the right valve finely striated, the left deeply grooved.

Family. ANATINIDÆ.\*

ANATINA ANGASI. Sowerby; *A. Tasmanica*, Hutton, Man. New Zealand Moll., p. 136 (1880), [not of Reeve].

*Habitat*.—North Island, and Cook's Straits.

Found also in Tasmania.

THRACIA VITREA. Hutton, Cat. Marine Moll. of New Zealand, p. 61, (Lyonsia) (1873); *T. granulosa*, Hutton, Cat. Tertiary Moll. of New Zealand, p. 19 (1873).

*Habitat*.—North Island.

NEÆRA TRAILLI. Hutton, Cat. Marine Moll. of New Zealand, p. 62 (1873).

*Habitat*.—Stewart's Island.

MYODORA STRIATA. Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 537, pl. 83, fig. 10 (1835); Reeve, Conch. Icon., fig. 6; *M. brevis*, Woodward, Man. Moll., pl. 23, fig. 12, [not of Sowb].

*Habitat*.—Throughout New Zealand.

This is the largest species of the genus. The concentric striæ on the left valve † are comparatively fine, and generally less conspicuous than as represented in the figures in the "Astrolabe"

\* The following species is omitted :—

*Thracia nova-zealandiæ*, Reeve.

† Mr. Smith says that considerable difference of opinion exists as to which is the posterior end of this shell. I do not understand how this can be for the pallial sinus is well marked. Mr. Smith's drawings show that it is the left valve which is flat. This is true for all the species that I have examined.

and the "Conchologia Iconica." The sculpture of the right valve is rather coarser than that of the other valve. (E. A. Smith, Proc. Zool. Soc., 1880, p. 580).

MYODORA ROTUNDATA. Sowerby, Pro. Zool. Soc., 1875, p. 129,  
pl. 24, fig. 8.

*Habitat*.—New Zealand. (British Museum).

I have seen no specimens.

This species differs from the last in having the right valve much deeper, the hinder dorsal margin proportionally shorter, less incurved and more sloping, the ligamental pit much smaller, and the contour of the shell more round (Smith, l. c., p. 580).

MYODORA BREVIS. Sowerby, Appendix to Stutchbury's Sale Catalogue, p. 3, plate, fig. 2; Reeve, Conch. Icon., fig. 7; Chem. Man. de. Conch., II., p. 52, fig. 217 [not of Woodward, nor of Adams]. *M. plana*, Hutton, Man. of New Zealand Mollusca, (1880), p. 137 [not of Sowb].

*Habitat*.—Stewart's Island.

Found also in Australia and Tasmania.

Variable in shape. The microscopic sculpture consists of a very minute granulation, the granules being of unequal sizes, and frequently transversely oblong. This granulation is coarser than in other species of the genus; and the almost total absence of the radiating lines obtaining in all of them is remarkable (Smith, l. c., p. 580).

MYODORA PANDORIFORMIS. Stutchbury, Zool. Jour., V., p. 99; tab. Supp., 43, figs. 3-4; Reeve, Conch. Icon., fig. 10. *M. brevis*, Adams, Gen. Moll., III., pl. 98, fig. 2 [not of Sowb.]

*Habitat*.—Stewart's Island. (C. Traill).

I have not seen this species. It is also found in Australia.

Easily recognised by its transversely elongate form; its comparative smoothness, and the excessive fineness of the microscopic sculpture (Smith, l. c., p. 581.)

MYODORA CRASSA. Stutchbury, Zool. Jour., V. p. 100, tab. Supp. 43, figs. 5-6; Reeve, Conch. Icon., fig. 1.

*Habitat*.—Stewart's Island. (C. Traill).

I have not seen this species. It is found also in Australia.

This species is remarkable for its solidity, and its left valve being less flattened, or concave, than in other species of the genus (Smith, l. c., p. 581).

MYODORA NEOZELANICA. Smith, (*Nova-zealandie*), Pro. Zool. Soc., 1880, p. 584, pl. 53, fig. 5.

*Habitat*.—Stewart's Island.

More equilaterally triangular than any other species in the genus, and remarkable for the abrupt termination of the concentric grooves on the right valve, the smooth posterior dorsal area, and particularly for the two divergent impressed rays within both of the valves or radiating from the umbones as far as the pallial impression (Smith).

MYODORA SUBROSTRATA. Smith, Pro. Zool. Soc., 1880, p. 584, pl. 53, fig. 6. *M. ovata*. Hutton, Man. Moll. of New Zealand, p. 137 [not of Reeve].

*Habitat*.—Auckland and Stewart's Island.

More broadly and deeply sulcated than *M. striata*, and of a different form, the hinder dorsal slope being straighter, and the anterior more curved. The right valve has not the elevated and strongly sculptured hinder marginal ridge which is characteristic of that species (Smith).

MYODORA ANTIPODUM. Smith, Pro. Zool. Soc., 1880, p. 585, pl. 53, fig. 7.

*Habitat* —Auckland (Col. Bolton).

I have not seen this species.

Shell transversely elongated, but differs from *M. pandoriformis* in the front dorsal margin being straight, in being more inequilateral and in the right valve being more convex. From *M. boltoni* it differs by the broader posterior truncated end, and the fact of the hinder dorsal slope being longer than the anterior. (Smith.)

MYODORA BOLTONI. Smith, Pro. Zool. Soc., 1880, p. 585,  
pl. 53, fig. 9.

*Habitat*.—Auckland (Col. Bolton).

I have not seen this species.

Shell transversely elongated, but differs from *pandoriformis* in being less strongly sulcated, and less broadly truncated behind, less curved on the front dorsal margin, and the pallial sinus is deeper. The hinder dorsal slope is shorter than the anterior. The sculpture is not so coarse as in *antipodum*, and the pallial sinus is deeper and not so broad.

CHAMOSTRÆA ALBIDA. Lamarck, Anim. s. Vert., 2nd edition.  
Vol. VI., p. 585.

*Habitat*.—North Island ; Chatham Islands.

Found also in Australia and Tasmania.

Family. MACTRIDÆ.\*

MACTRA DISCORS. Gray, Mag. Nort. Hist., 1837, p. 371, Voy.  
Erebus and Terror, Moll., pl. 2, fig. 4 ; Reeve, Conch. Icon,  
fig. 17 (1854). *M. murchisoni*, Deshayes, Pro. Zool. Soc.,  
1854 ; Reeve, Conch. Icon., fig. 76.

*Habitat*.—Throughout New Zealand.

MACTRA ÆQUILATERA. Deshayes, Pro. Zool. Soc., 1853, p. 17 ;  
Voy. Erebus and Terror, Moll., pl. 2, fig. 10 ; Reeve, Conch.  
Icon., fig. 14. *M. elegans*, Hutton, Cat. Tertiary Moll. of  
New Zealand, p. 19 (juv).

*Habitat*.—Throughout New Zealand.

MACTRA SCALPELLUM. Deshayes, Pro. Zool. Soc., 1854 ; Reeve,  
Conch. Icon., fig. 106. *Darina pusilla*, Hutton, Cat. Marine  
Moll. of New Zealand, p. 64, (1873).

*Habitat*.—Stewart's Island ; Auckland (Strange).

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\* The following species are omitted :—

*Mactra donaciformis*. Gray.

*Cæcella Zealandica*. Deshayes.

HEMIMACTRA OVATRA. Gray in Dieffenbach's New Zealand, II, p. 251 (1843); Reeve, Conch. Icon. Mactra., fig. 30. *M. deluta*. Gould. Pro. Bost. Soc. Nat. Hist., 1849, III., p. 215. *M. rudis*. Hutton, Cat. Tertiary Moll. of New Zealand, p. 19 (1873).

*Habitat*.—Throughout New Zealand, in estuaries.

HEMIMACTRA ELONGATA. Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 518, pl. 83, fig. 1-2 (1835) [not of Reeve]. *M. inflata*. Hutton, Cat. Tertiary Moll. of New Zealand, p. 18 (1873).

*Habitat*.—Cook's Straits and the South Island.

HEMIMACTRA NOTATA. Hutton, Cat. Marine, Moll. of New Zealand, p. 64 (1873). *M. elongata*. Reeve, Conch. Icon. Mactra., fig. 43 [not of Quoy and Gaimard].

*Habitat*.—Throughout New Zealand.

ZENATIA ACINACES. Quoy and Gaimard. Voy. Astrolabe, Zool. III., p. 545, pl. 83, fig. 5-6 (1835); Reeve, Conch. Icon. Lutraria, fig. 14. *Z. cumingiara*, Deshayes, Pro. Zool. Soc., 1854; Reeve, l.c., fig. 13. *Z. solenoides*, Deshayes, l.c., 1854; [not of Lamarck]. *Z. Deshayesii*, Reeve, l.c., fig. 1.

*Habitat*.—Throughout New Zealand.

VANGANELLA TAYLORI. Gray, Ann. Nat. Hist., 1853, XI., p. 476; Voy. Erebus and Terror, Moll., pl., 2, fig. 5. *Lutraria lanceolata*, Reev, Conch. Icon., fig. 17. Tryon Structural and Systematic Conchology III., pl. 110, fig. 10.

*Habitat*.—Cook's Straits and South Island.

RAETA PERSPICUA. Hutton, Cat. Marine Moll. of New Zealand, p. 65 (1873).

*Habitat*.—Bay of Islands, and Wellington (T. W. Kirk.)

## Family. PAPHIDÆ.\*

PAPHIA NEOZELANICA. Chemnitz (Mya) Conch. Cab. VI., fig. 19-20 (1782); Reeve, Conch. Icon. Mesoderma, fig. 21; *Mya australis*, Gmelin, 13th edition; Linné's Syst. Nat., p. 3221; *Paphia Roissyana*, Lesson, Voy. Coquille, Zool. I., p. 424, pl. 15, fig. 4; *M. Chemnitzii*, Deshayes, Ency. Meth. II., p. 443; Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 505, pl. 82, fig. 9-11; Reeve, Conch. Icon. Mesoderma, fig. 21; *M. ovalis*, Deshayes, Pro. Zool. Soc., 1854, p. 336; Reeve, l.c., fig. 7; *M. aucklandicum*, Martens, Sitz. der Geselle. Nat. Freun. Zu Berlin, 1879, p. 37.

*Habitat*.—Throughout New Zealand and at the Auckland Islands.

PAPHIA VENTRICOSA. Gray in Dieffenbach's New Zealand II., p. 252; Voy. Erebus and Terror, Moll., pl. 3, fig. 6; *M. latum*, Deshayes in Guérin's Magasin de Zoologie, 1843, p. 80; Reeve, Conch. Icon. Mesoderma, fig. 4.

*Habitat*.—From Cook's Straits to the South of New Zealand.

PAPHIA SPISSA. Reeve, Conch. Icon. Mesoderma, fig. 18 (1854); *M. sub-triangularata*, Gray (?)

*Habitat*.—Throughout New Zealand and at the Chatham Islands.

## Family. TELLINIDÆ.†

PSAMMOBIA STANGERI. Gray in Dieffenbach's New Zealand II., p. 253 1843; Reeve, Conch. Icon., fig. 12.

*Habitat*.—Throughout New Zealand.

\* The following species is omitted :—

*Mesodesma cuneatum*. Lamarck, from Australia.

† The following species are omitted :—

*Tellina sublenticularis*. Sowerby, inhabits Australia.

*Tellina strangei*. Deshayes.

*Psammobia affinis*. Reeve, inhabits the Philippines.



PSAMMOBIA LINEOLATA. Gray in Yate's New Zealand, p. 309 (1835); Voy. Erebus and Terror, Moll., pl. 2, fig. 11; Reeve, Conch. Icon., fig. 58.

*Habitat*.—Throughout New Zealand and at the Chatham Islands.

PSAMMOBIA NEOZELANICA. Deshayes, Proc. Zool. Soc., 1854, p. 319; *P. zonalis*, Cat. Marine Moll. of New Zealand [not of Lamarck].

*Habitat*.—Stewart's Island.

HIATULA NITIDA. Gray, in Dieffenbach's New Zealand, II., p. 253 (1843); Voy. Erebus and Terror, Moll., pl. 2, fig. 9.

*Habitat*.—New Zealand.

Height of the shell rather more than half the length; the posterior end sub-angulated.

HIATULA INCERTA. Reeve, Conch. Icon. Soletellina, fig. 13 (1857); Deshayes, MSS.; *H. nitens*, Tryon American Jour. of Conch., V., p. 171, pl. 16, fig. 9 (1870).

*Habitat*.—New Zealand (Strange and T. B. Wilson).

Height of the shell rather more than half the length; the posterior end rounded.

HITAULA SILIQUA. Reeve, Conch. Icon. Soletellina, fig. 10, (1857).

*Habitat*.—New Zealand. (Hart).

Height less than half the length.

TELLINA ALBA. Quoy and Gaimard, Voy. Astrolabe, Zool., III., p. 500, pl. 81, figs. 1-3 (1835); Reeve, Conch. Icon. fig. 180.

*Habitat*.—Throughout New Zealand.

TELLINA GLABRELLA. Deshayes, Pro. Zool. Soc., 1854, p. 366; Voy. Erebus and Terror, Moll., pl. 2, fig. 7; Reeve, Conch. Icon. fig. 296. *T. lactea*, Quoy and Gaimard, Voy. Astrolabe,

Zool., III., p. 501, pl. 81, figs. 14-16 (1835) [not of Linné].  
*T. deltoidalis*, Hutton, Man. Moll. of New Zealand, p. 143,  
 (1880) [not of Lamarck].

*Habitat*—Throughout New Zealand.

TELLINA DISCULUS. Deshayes, Pro. Zool. Soc., 1854, p. 360 ;  
 Reeve, Conch. Icon., fig. 306, *T. lactea*, Gray in Dieffenbach's  
 New Zealand, II., p. 254 [not of Linné].

*Habitat*.—North Island of New Zealand ; Chatham Islands.

TELLINA SUBOVATA. Sowb. in Reeves' Conch. Icon., fig. 160  
 (1866). *T. lineata*, Hutton, Cat. Marine Moll. of New Zealand  
 p. 67 (1873).

*Habitat*.—Stewart's Island.

TELLINA TICAONICA. Deshayes, Pro. Zool. Soc., 1854, p. 358 ;  
 Reeve, Conch. Icon., fig. 303

*Habitat*—Stewart's Island.

Found also in Australia and, according to Mr. Cumming, in the  
 Philippines.

TELLINA RADIATA. Deshayes, (Capsella) Pro. Zool. Soc., 1854, p.  
 348.

*Habitat*.—Stewart's Island.

Found also, according to Mr. Cumming, at the Philippines.

#### Family VENERIDÆ \*

VENUS OBLONGA. Hanley in Wood's Index Test. Suppl. (1828) ;  
 Voy. Erebus and Terror, Moll., pl. 2, fig. 1. *V. zealandica*,  
 Gray in Yate's New Zealand, p. 309 (1835) [not of Quoy and  
 Gaimard].

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\* The following species have been omitted :—

*Venus nodosa*, Dunker ; inhabits West Africa.

*Venus lima*, Sowerby.

*Chione lamellata*, Lamarck ; inhabits Australia.

*Chione gibbosa*, Hutton ; found fossil only.

*Chione paupercula*, Chemnitz ; inhabits India.

*Callista disrupta*, Sowerby ; inhabits Australia.

*Dosinia carpenteri*, Römer.

*Tapes fabagella*, Deshayes ; inhabits Australia.

*Tapes galactites*, Lamarck ; inhabits Australia.

*Habitat*.—Throughout New Zealand, and at the Auckland Islands.

VENUS CREBRA. Hutton, Cat. Marine Moll. of New Zealand, p. 70 (1873).

*Habitat*.—North Island of New Zealand.

Perhaps a variety of the last but more swollen, smoother, and the concentric striae crenulated at the anterior end by radiating lines.

VENUS YATEI. Gray in Yate's New Zealand (1835). *V. calcarea*, Gould, Pro. Bost. Soc. Nat. Hist. III., p. 277 (1850). *V. lucasii*, Hombron and Jacquinot, Voy. Pole Sud. Zool. V., p. 151, pl. 26, fig. 1 (1854).

*Habitat*.—Throughout New Zealand, but rare in the South.

Prof. v. Martens says that this species is allied to *V. exalbida*, Chemn. from the Straits of Magellan, and to *V. plicata*, Gmelin.

VENUS STUCHBURYI. Gray in Woods Index Test. Supp. (1828); and in Dieffenbach's New Zealand, II., p. 250; Voy. Erebus and Terror, Moll. pl. 3, fig. 4; Reeve, Conch. Icon. fig. 59. *V. Zealandica*, Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 522, pl. 84, fig. 5-6 (1835) [not good.] *V. Dieffenbachii*, Gray in Dieff., New Zealand, II., p. 250 (1843) (Young).

*Habitat*.—Throughout New Zealand, and at the Chatham and Auckland Islands.

Found also in Tasmania (Tenison-Woods), and according to Mr. S. P. Woodward at Kerguelen's Land.

VENUS COSTATA. Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 521, pl. 84, fig. 1-2 (1835). *V. crassicosta*, Hanley in Recent Shells, p. 118, pl. 16, fig. 39 (1844). *V. crassicostata*, Reeve, Conch. Icon., fig. 42.

*Habitat*.—Throughout New Zealand.

**VENUS MESODESMA.** Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 532, pl. 84, fig. 17-18 (1835); Deshayes, Cat. Brit. Mus. Veneridæ, p. 150; Römer, Mal. Blatt. XIV., p. 133 (1867). *V. spurea*, Sowerby. Pro. Zool. Soc., 1835 (?), Reeve, Conch. Icon., fig. 90. *V. denticulata*, Quoy and Gaimard, l.c., p. 530, pl. 84, fig. 15-16. *V. violarea*, Quoy and Gaimard, l.c., p. 533, pl. 84, fig. 19-20. *V. crassa*, Quoy and Gaimard, l.c., p. 525, pl. 84, fig. 7-8. *V. spissa*, Deshayes in Lamarek's Anim. s. Vert., 2nd edition, VI., p. 373 (1840). *V. scansilis*, Römer, l.c., VII., p. 114 (1861).

*Habitat.*—Throughout New Zealand.

It is said to be also found at Valparaiso and in the Philippine Islands, but specimens from these localities have not, I think, been compared.

**CYTHEREA MULTISTRIATA.** Sowerby, Thes. Conch. I., p. 628, pl. 36, fig. 177; Reeve, Conch. Icon. Dione, fig. 60; Deshayes, Cat. Brit. Mus., Veneridæ, p. 64.

*Habitat.*—Cook's Straits to Stewart Island.

**DOSINIA AUSTRALIS.** Gray in Dieffenbach's New Zealand, II., p. 249 (1843); *D. anus*, Philippi, Icones, Cytherca, pl. 8, fig. 1 (1848); Reeve, Conch. Icon. fig. 10.

*Habitat.*—North Island and as far south as Oawaru in Otago.

**DOSINIA SUBROSEA.** Gray in Yate's New Zealand (1835) and in Dieffenbach's New Zealand, II., p. 249 (1843); Voy. Erebus and Terror, Moll., pl. 3, fig. 2.

*Habitat.*—North Island, and as far south as Dunedin.

Found also in Tasmania.

**DOSINIA LIMBATA.** Gould, Pro. Bost. Nat. Hist. Soc. III., p. 277 (1850); United States Exploring Expedition, XII., p. 422, atlas, fig. 536 (1852).

*Habitat.*—North Island; rare.

DOSINIA GRAYI. Zittel, Reise de Novara, Palæontology, p. 45,  
pl. 15, fig. 11 (1864).

*Habitat*.—Wellington (H. B. Kirk), and at the Chatham Islands ; rare.

TAPES INTERMEDIA. Quoy and Gaimard, Voy. Astrolabe, Zool.  
III., p. 526, pl. 84, fig. 9-10 (1835).

*Habitat*.—Throughout New Zealand and at the Auckland Islands.

According to Prof. v. Martens this species is allied to the European *T. decussatus*. L.

#### Family. PETRICOLIDÆ.\*

VENERUPIS REFLEXA. Gray in Dieffenbach's New Zealand, II., p.  
250 (1843) ; Voy Erebus and Terror, Moll., pl. 2, fig. 3. *V.*  
*insignis*, Deshayes, Pro. Zool. Soc., 1853, p. 6, pl. 18, fig. 4 ;  
Reeve, Conch. Icon. fig. 2.

*Habitat*.—Auckland.

Shell shortly truncated, the lamellæ simply reflexed. Interior  
with a purple mark behind.

VENERUPIS ELEGANS. Deshayes, Pro. Zool. Soc., 1853, p. 5, pl. 18,  
fig. 2 ; Voy. Erebus and Terror, Moll., pl. 2, fig. 6.

*Habitat*.—Auckland.

Shell longer than the last, the lamellæ crisped behind. Interior  
white.

#### Family CARDIIDÆ.

CARDIUM STRIATULUM. Sowerby, Pro. Zool. Soc., 1840 ; Reeve,  
Conch. Icon, fig. 60. *C. pulchellum*, Gray in Dieffenbach's  
New Zealand, II., p. 252 (1843) [not of Reeve].

*Habitat*.—Throughout New Zealand.

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\* The following species have been omitted :—

*Petricola serrata*. Deshayes.

*Venerupis paupercula* Deshayes.

*Venerupis siliqua*. Deshayes.

## Family LUCINIDÆ\*

LUCINA DENTATA. Wood, Gen Conch., p. 195, pl. 46. fig. 7, (1817). *L. divaricata*, Lamarck, Anim. sans Vert., V., p. 541 (1818) [not of Linnè]. Reeve, Conch. Icon., fig. 47A.

*Habitat*.—Throughout Zew Zealand.

Found also in Tasmania, Australia and widely spread over the earth.

For the synonymy of this species see Brazier, Pro. Lin. Soc. of N. S. Wales, VIII., p. 229.

## Family UNGULINIDÆ.

MYSIA NEOZELANICA. Gray in Dieffenbach's New Zealand, II., p. 256 (1843); Voy. Erebus and Terror, Moll., pl. 3, fig. 8. *L. inculta*, Gould, Pro. Bost. Nat. Hist. Soc., III., p. 255, (1850).

*Habitat*.—Auckland.

MYSIA GLOBULARIS. Lamarck, Ann. sans Vert., 2nd edition, VI., p. 231; Reeve, Conch. Icon. Lucina., fig. 55.

*Habitat*.—Throughout New Zealand.

Found also in Australia.

MYSIA STRIATA. Hutton, Jour. de Conch., 1878, p. 51. *L. Novæ-zealandiæ*, Reeve, Conch. Icon. Lucina., fig. 14 (1850) [not of Gray].

*Habitat*.—Cook's Straits.

## Family. ERYCINIDÆ.

KELLIA CITRINA. Hutton, New Zealand Jour. of Science I., p. 477 (1883); Trans. New Zealand, Inst. XVI., p. 215 (1884).

*Habitat*.—Auckland.

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\* The following species has been omitted :—  
*L. lactea*, Adams; inhabits Australia.

KELLIA SANGUINEA. Hutton, New Zealand, Jour. of Science I.,  
p. 478 (1883); Trans. New Zealand, Inst., XVI., p. 215  
(1884).

*Habitat*.—Stewart's Island.

KELLIA ANTIPODUM. Filhol, Comptes Rendus, XCI., p. 1095  
(1880).

*Habitat*.—Campbell Island.

Near *K. cycladiiformis*, but distinguished by the presence of very  
regular concentric lines. I have not seen this species.

PYTHINA STOWEI. Hutton, Cat. Marine Moll. of New Zealand,  
p. 76 (1873).

*Habitat*.—North Island of New Zealand.

Family. SOLEMYIDÆ.

SOLEMYA PARKINSONI. Smith, Voy. Erebus and Terror, Moll.  
p. 6, pl. 3, fig. 1; *S. Australis* Reeve, Conch. Icon., fig. 4  
[not of Lamarck]

*Habitat*.—Throughout New Zealand.

Family. ASTARIDÆ.\*

CRASSATELLA OBESA. Adams, Pro. Zool. Soc., 1852, p. 90, pl.  
16, fig. 2.

*Habitat*.—New Zealand, in deep water (Strange.)

I have not seen this species.

CRASSATELLA BELLULA. Adams, Pro. Zool. Soc., 1852, p. 95.  
*Gouldia isabella*, Hutton, Cat. Marine Moll. of New Zealand,  
p. 76 (1873).

*Habitat*.—Cook's Straits, in deep water.

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\* The following species have been omitted:—

*Cardita amabilis*, Deshayes; inhabits Tasmania.

*Cardita bimaculata*, Deshayes; inhabits Tasmania.

CARDITA AUSTRALIS. Lamarck, Anim. sans Vert. 2nd edition, VI., p. 383; Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 480, pl. 78, figs. 11-14 (1835); Gray, Figures of Molluscan Animals, pl. 346, fig. 4. *C. Zealandica*, Potiez and Michaud, Gall. des Moll., 1838, p. 166. *C. tridentata*, Reeve, Conch. Icon. fig.-22 (1843) [not of Say]. *C. purpurata*, Deshayes, Proc. Zool. Soc., 1852, p. 100, pl. 17, figs. 12-13.

*Habitat*.—Throughout New Zealand, and at the Chatham Islands.

The interior is generally marked with rosy or purple, and the ribs are broader than the interstices.

CARDITA DIFFICILIS. Deshayes, Proc. Zool. Soc., 1852, p. 103, pl. 17, figs. 16-17.

*Habitat*.—Stewart's Island.

The interior is white, and the interstices are sub-equal to the ribs. Perhaps a variety of the last species.

CARDITA COMPRESSA. Reeve, Conch. Icon. fig. 46 (1843); *C. zealandica*, Deshayes, Proc. Zool. Soc., 1852, p. 101, [not of Potiez and Michaud]; *C. lutea*, Hutton, Man. of New Zealand Mollusca, p. 159 (1880).

*Habitat*.—Auckland.

CARDITA TASMANICA. Tenison-Woods (Mytilicardia) Proc. Roy. Soc. of Tasmania, 1875, p. 161; *Mytilicardia excavata*, Hutton, Man. New Zealand Mollusca, p. 160 (1880) [not of Deshayes].

*Habitat*.—Throughout New Zealand and at the Chatham Islands. Found also in Tasmania.

#### Family. ARCIDÆ.\*

\* The following species have been omitted, but possibly some of them may yet be obtained by dredging.

*Nucula castanea*. Adams.

*Nucula striolata*. Adams, inhabits China.

*Nucula grayi*. D'Orbigny, inhabits S. America.

*Leda fastidiosa*. Adams.

*Leda micans*. Adams.



ARCA DECUSSATA. Sowerby, Proc. Zool. Soc., 1833, p. 18 ;  
Reeve, Conch. Icon., fig. 81.

*Habitat*.—Throughout New Zealand. Found also in Australia.

ARCA DONACIFORMIS. Reeve, Conch. Icon. fig. 104 (18 );  
*Barbatia pusilla*, Hutton, Man. New Zealand Moll., p. 162  
[not of Sowerby].

*Habitat*.—Throughout New Zealand. Found also in the  
Mozambique.

PECTUNCULUS LATICOSTATUS. Quoy and Gaimard, Voy. Astrolabe,  
Zool. III., p. 466; pl. 77, fig. 4-6 (1835); Reeve, Conch.  
Icon., fig. 8; *P. ovatus*, Quoy and Gaimard, l.c., p. 467, pl.  
77, figs. 1-2; *P. flammeus*, Reeve, Conch. Icon., fig. 7 (1843);  
*P. grayanus*, Dunker, Pro. Zool. Soc., 1856, p. 357.

*Habitat*.—Throughout New Zealand, and at the Chatham  
Islands. Found also in South Australia and Bass' Straits.

PECTUNCULUS STRIATULARIS. Lamarek, Anim. sans Vert., 2nd  
edition, VI., p. 493; Reeve, Conch. Icon., fig. 27.

*Habitat*.—Throughout New Zealand.

NUCULA NITIDULA. Adams, Pro. Zool. Soc., 1856, p. 51; Sow.  
Thesaur. III., pl. 229, fig. 142; Reeve, Conch. Icon. fig. 27.

*Habitat*.—Throughout New Zealand.

NUCULA STRANGEL. Adams, Pro. Zool. Soc., 1856, p. 52; Reeve,  
Conch. Icon. fig. 15; Voy. Erebus and Terror, Moll., pl. 2,  
fig. 14.

*Habitat*.—Cook's Straits. Found also in Australia.

NUCULA LACUNOSA. Hutton (1884). *N. sulcata*, Adams, Pro.  
Zool. Soc. 1856, p. 53; Reeve, Conch. Icon., fig. 10 [not of  
Brown].

*Habitat*.—North Island of New Zealand.

LODA CONCINNA. Adams, Pro. Zool. Soc., 1856, fig. 48; Reeve, Conch. Icon., fig. 15.

*Habitat*.—Cook's Straits and South Island of New Zealand.

SOLENELLA AUSTRALIS. Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 471, pl. 78, fig. 5-10; Reeve, Conch. Icon., fig. 4; Voy. Erebus and Terror, Moll., pl. 2, fig. 13; Gray, Figs. Moll. Animals II., pl. 372 fig. 7A and 10. *Neilo cumingii*, Adams, Pro. Zool. Soc., 1852, p. 93.

*Habitat*.—Wellington and Stewart's Island.

Family. MYTILIDÆ.\*

MYTILUS MAGELLANICUS. Lamarck, Anim. sans Vert., 2nd edition, VII., p. 37; Reeve, Conch. Icon. fig. 22. *M. polyodon*, Quoy and Gaimard, Voy. Astrolabe, Zool. III., p. 462, pl. 78, figs. 15-16 (1835).

*Habitat*.—Cook's Straits and the South Island of New Zealand, and at Chatham Islands, Auckland Islands and Campbell Island. Found also in S. America and Kergulen's Land.

MYTILUS LATUS. Chemnitz, Conch. Cab. VIII., f. 747 (1785); Reeve, Conch. Icon., fig. 12 and fig. 24 [not of Lamarck.] *M. durus*, Solander, Cat. Portland Museum. *M. caniliculatus* Martyn Univ. Conch., pl. 78 (?).

*Habitat*.—Throughout New Zealand. Found also in Tasmania.

MYTILUS CHORUS. Molina, *M. latus*, Lamarck [not of Chemnitz]. *M. edulis*, Hutton, Tran. New Zealand, Moll., p. 167 [not of Linné].

*Habitat*.—Throughout New Zealand; and at the Auckland Islands and Campbell Island. Found also in Chili.

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\* The following species have been omitted :—

*Mytilus hirsutus*, Lam.; inhabits Australia.

*Mytilus dunkeri*, Reeve; inhabits America.

*Modiola albicosta*, Lam.; inhabits Australia.

*Modula securis*, Lam.; not recognised.

*Lithodomus gruneri*; Reeve, inhabits W. Africa.

MYTILUS ATER. Frauenfeld, Verhandl. Zool. Bot., Gesellsch. Wien., 1866, p. 916; Reise der Novara, Moll. pl. 2, figs. 29-30. *M. crassas*, Tenison-Woods, Pro. Roy. Soc. Tas., 1876, p. 157 (1877).

*Habitat*.—Throughout New Zealand. Found also in Tasmania.

MODIOLA AUSTRALIS. Gray in King's Voyage II., p. 477 (1827); Reeve, Conch. Icon., fig. 21; *M. areolata*, Gould, Proc. Bost. Soc. Nat. Hist. III., p. 353 (1850).

*Habitat*.—Throughout New Zealand, and at the Chatham and Auckland Islands. Found also in Australia.

MODIOLA FLUVIATILIS. Hutton, Jour. de Conch., 1878, p. 53.

*Habitat*.—Dunedin and Chatham Islands, in brackish water.

CRENELLA IMPACTA. Hermann (1782); Reeve, Conch. Icon. Modiola, fig. 64; *M. discors*, Chennitz, Lamarck, and Quoy and Gaimard.

*Habitat*.—Throughout New Zealand and at the Chatham Islands. Found also in Europe and N. America.

LITHODOMUS TRUNCATUS. Gray in Dieffenbach's New Zealand II., p. 259; Reeve, Conch. Icon., fig. 3; Voy. Erebus and Terror, Moll., pl. 2, fig. 12.

*Habitat*.—North Island of New Zealand.

#### Family. AVICULIDÆ.\*

PINNA NEOZELANICA. Gray in Dieffenbach's New Zealand II., p. 259 (1843); Voy. Erebus and Terror, Moll., pl. 3, fig. 7; Reeve, Conch. Icon., fig. 13; *P. senticosa*, Gould, Proc. Bost. Soc. Nat. Hist. III., p. 312 (1850).

*Habitat*.—Throughout New Zealand. Found also in Australia.

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\* The following species have been omitted:—

*Avicula glabra*. Gould.  
*Avicula fucata*. Gould, inhabits Fiji.  
*Avicula lurida*. Gould.

## Family. LIMIDÆ.

LIMA NEOZELANICA. Sowerby, Proc. Zool. Soc., 1876, p. 754, pl. 75, fig. 1; *L. squamosa*, Hutton, Cat. Marine Moll. of New Zealand (1873), [not of Lam].

*Habitat*.—Stewart's Island.

LIMA ANGULATA. Sowerby, Thes. Conch.; Reeve, Conch. Icon., fig. 13.

*Habitat*.—North Island of New Zealand. Found also in Australia.

LIMA BULLATA. Born., Sowb., Thes. Conch. I., pl. 22, fig. 33; *L. japonica*, Adams, Proc. Zool. Soc., 1863, p. 509; Reeve, Conch. Icon., fig. 21 (?)

*Habitat*.—South Island of New Zealand. Found also in Tasmania.

## Family. PECTINIDÆ.\*

PECTEN ASPERRIMUS. Lamarck, Anim. sans Vert. *P. australis*, Sowerby. Thes. Conch. I., p. 76; Reeve, Conch. Icon., fig. 103.

*Habitat*.—Foveaux Straits. Found also in Tasmania and Australia.

PECTEN NEOZELANICA. Gray in Dieffenbach's New Zealand, II., p. 260 (1843); Voy. Erebus and Terror, Moll. pl. 3, fig. 7. *P. latus*, Gould. Proc. Bost. Soc. Nat. Hist. III., p. 345 (1850). *P. dieffenbachii*, Reeve, Conch. Icon. fig. 88 (1852). *P. multicostatus*, Reeve, l.c., fig. 173.

Variety *gemmulatus*. Reeve, Conch. Icon., fig. III.

*Habitat*.—Throughout New Zealand, and at the Chatham Islands.

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\* The following species have been omitted :—

*Pecten pica*; Reeve.

*Plicatula nova-zealandica*. Sowerby.

PECTEN RADIATUS.—Hutton, Cat. Marine Moll. of New Zealand, p. 82 (1873).

*Habitat*.—Stewart's Island.

PECTEN CONVEXUS. Quoy and Gaimard, Voy. Astrolabe Zool. III., p. 443, pl. 76, figs. 1-3 (1835); *P. roseo-punctatus*, Reeve, Conch. Icon., fig. 84; *P. vellicatus*, Hutton, Cat. Marine Moll. of New Zealand, p. 82 (1873).

*Habitat*.—Cook's Straits and the South Island of New Zealand.

PECTEN LATICOSTATUS. Gray in Dieffenbach's New Zealand II., p. 260 (1843); *P. novæ-zealandiæ*, Reeve, Conch. Icon., fig. 36 (1852); *Pecten fumatus*, L. (?)

*Habitat*.—Throughout New Zealand, and at the Chatham Islands. Found also in Australia.

#### Family ANOMIIDÆ.

ANOMIA STOWEI. Hutton, Cat. Marine Moll. of New Zealand, p. 83 (1873).

*Habitat*.—Cook's Straits.

ANOMIA ALECTUS. Gray, Pro. Zool. Soc., 1849, p. 117; Reeve, Conch. Icon., fig. 28.

*Habitat*.—Stewart's Island.

A doubtful determination.

ANOMIA CYTEUM. Gray, Pro. Zool. Soc., 1849, p. 115.

*Habitat*.—Stewart's Island.

A very doubtful determination.

PLACUANOMIA NEOZEALANICA. Gray in Dieffenbach's New Zealand, II., p. 260: Voy. Erebus and Terror, Moll., pl. 3, fig. 10; Reeve, Conch. Icon., fig. 4.

*Habitat*.—Throughout New Zealand.

PLACUANOMIA IONE. Gray, Proc. Zool. Soc., 1849, p. 123; Reeve, Conch. Icon., fig. 6.

*Habitat*.—Stewart's Island and Wellington (H. B. Kirk).  
Found also in Tasmania and Australia.

Family OSTREIDÆ.\*

OSTREA EDULIS. Linné; Reeve, Conch. Icon., fig. 8. Variety  
PURPUREA. Hanly, Conch. Miscel., pt. 3.

*Habitat*.—Throughout New Zealand.

Variety ANGASI. Sowerby in Reeve's Conch. Icon., fig. 27 (1871).  
*O. lutaria*, Hutton, Cat. Marine Moll. of New Zealand, p. 84  
(1873). *O. chilensis*, Sowb. in Reeves Conch. Icon., fig. 33 (?).

*Habitat*.—South Island of New Zealand.

OSTREA GLOMERATA. Gould, Pro. Bost. Soc. Nat. Hist., III., p.  
346 (1850); Un. St. Ex. Ep., XII., p. 461, Atlas fig. 577;  
Reeve, Conch. Icon., fig. 52.

*Habitat*.—Auckland, on rocks.

OSTREA RENIFORMIS. Sowerby in Reeves Conch. Icon., fig. 57  
(1871).

*Habitat*.—Dunedin and Banks Peninsula, on rocks.

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\* The following species has been omitted :  
*Ostrea discoidea*, Gould; inhabits Fiji Islands.